

Play Sol

Play it safe with

SAFETY DATA SHEET

Play Sol Playground Surface Cleaner

Print Date 14/04/2015

1. Identification of the substance/mixture and of the company/undertaking

Product name Trade name : Play Sol Playground Surface Cleaner

Substance name : sodium hypochlorite, solution 9-15 % Cl active

Index-No. : 017-011-00-1

CAS-No. : 7681-52-9

EC-No. : 231-668-3

Details of the supplier of the safety data sheet

Company : Play Services Ireland Ltd, 422 Lisburn Enterprise Centre, Lisburn, BT28 2BP

Tel: 028 92666519

Email: info@playservicesireland.com

2. Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

REGULATION (EC) No 1272/2008

Hazard class Hazard category Target Organs Hazard statements

Skin corrosion Category 1B H314

Acute aquatic toxicity Category 1 H400

For the full text of the H-Statements mentioned in this Section, see Section 16.

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Directive 67/548/EEC or 1999/45/EC

Hazard symbol / Category of danger Risk phrases

Corrosive (C) R34

R31

Dangerous for the environment (N) R50

For the full text of the R-phrases mentioned in this Section, see Section 16.

Most important adverse effects

Human Health : See section 11 for toxicological information.

No further information available.

Physical and chemical hazards: See section 9 for physicochemical information., No further information available.

Potential environmental effect: See section 12 for environmental information.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard symbols :

Signal word : Danger

Hazard statements : H314 Causes severe skin burns and eye damage.

H400 Very toxic to aquatic life.

Precautionary statements

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Prevention : P260 Do not breathe vapours.

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/
eye protection/ face protection.

Response : P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do

NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse
skin with water/ shower.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,
if present and easy to do. Continue rinsing.

Additional Labelling: EUH031 Contact with acids liberates toxic gas.

Hazardous components which must be listed on the label:• sodium hypochlorite, solution

2.3. Other hazards

No other information is available.

3. Composition/information on ingredients

3.1. Substances

Chemical nature : sodium hypochlorite

Aqueous solution

Chemical Name Identification Number Amount [%]

sodium hypochlorite, solution

Index-No.

CAS-No.

EC-No.

Registration number

....

017-011-00-1

7681-52-9

231-668-3

01-2119488154-34-xxxx

>= 10 - <= 15

sodium hydroxide

Index-No.

CAS-No.

EC-No.

....

011-002-00-6

1310-73-2

215-185-5 >= 0 - < 5

4. First aid measures

4.1 Description of first aid measures

General advice: Take off all contaminated clothing immediately. If inhaled : In case of accident by
inhalation: remove casualty to fresh air and keep at rest. If breathing is irregular or stopped, administer
artificial respiration. Call a physician immediately.

In case of skin contact : Wash off immediately with soap and plenty of water. If irritation appears or if the
contamination is important, seek medical advice.

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In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult an eye specialist immediately. Go to an ophthalmic hospital if possible.

If swallowed : Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person.

If swallowed, do not induce vomiting - seek medical advice. If a person vomits when lying on his back, place him in the recovery position.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : Inhalation may provoke the following symptoms:

Cough

Headache

Lung oedema

Effects : Risk of serious damage to the lungs (by aspiration).

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

Later control for pneumonia and lung oedema.

5. Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

The product itself does not burn. Unsuitable extinguishing media: Exempt

5.2. Special hazards arising from the substance or mixture

Specific hazards during fire fighting: Fire may cause evolution of: Chlorine, Hydrogen chloride gas, chlorine oxides

5.3. Advice for firefighters

Special protective equipment for fire-fighters

: In the event of fire, wear self-contained breathing apparatus.

Wear appropriate body protection (full protective suit)

Further information : Cool closed containers exposed to fire with water spray.

Heating will cause a pressure rise - with risk of bursting.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment. Wear respiratory protection. Keep people away from and upwind of spill/leak.

Provide adequate ventilation. Danger of slipping if spilled

Avoid contact with skin and eyes. Do not breathe vapour.

6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.

Avoid subsoil penetration.

If the product contaminates rivers and lakes or drains inform respective authorities.

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If material reaches soil inform authorities responsible for such cases.

6.3 Methods and materials for containment and cleaning up

Methods and materials for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders). Keep in suitable, closed containers for disposal.

Further information : Treat recovered material as described in the section "Disposal considerations".

6.4 Reference to other sections For personal protection see section 8.

7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Do not keep the container sealed. Handle and open container with care. Ensure adequate ventilation. Use personal protective equipment. Avoid contact with the skin and the eyes. Do not breathe vapours or spray mist. Use respirator with appropriate filter if vapours or aerosol are released.

Emergency eye wash fountains and emergency showers should be available in the immediate vicinity.

Hygiene measures : Keep away from food, drink and animal feedingstuffs. Smoking, eating and drinking should be prohibited in the application area.

Wash hands before breaks and at the end of workday. Take off all contaminated clothing immediately.

Avoid contact with the skin and the eyes. Do not breathe vapours or spray mist.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers: Keep in an area equipped with alkali resistant flooring.

Keep only in the original container. Store in a receptacle equipped with a vent.

Advice on protection against fire and explosion: The product is not flammable. Normal measures for preventive fire protection.

Further information on storage conditions: Keep in a well-ventilated place. Protect against light. Store in cool place. Do not keep the container sealed.

Advice on common storage : Keep away from food, drink and animal feedingstuffs. Do not store together with acids and ammonium salts.

German storage class : 8B: Non-combustible substances, corrosive

8. Exposure controls/personal protection

8.1. Control parameters

Component: sodium hydroxide CAS-No.

1310-73-2

Other OELs

Regulatory Basis : UK. EH40 Workplace Exposure Limits (WELs)

Regulatory List : EH40 WEL

Value type : Short Term Exposure Limit (STEL):

Value : 2 mg/m³

Component: chlorine CAS-No.

7782-50-5

Other OELs

Regulatory Basis : EU. Indicative Exposure and Directives relating to the protection of risks related to work exposure to chemical, physical, and biological agents.

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Regulatory List : EU ELV
Value type : Short Term Exposure Limit (STEL):
Value : 0.5 ppm
Value : 1.5 mg/m³
Remarks : Indicative
Regulatory Basis : UK. EH40 Workplace Exposure Limits (WELs)
Regulatory List : EH40 WEL
Value type : Short Term Exposure Limit (STEL):
Value : 0.5 ppm
Value : 1.5 mg/m³

8.2. Exposure controls

Engineering measures

Refer to protective measures listed in sections 7 and 8.

Personal protective equipment

Respiratory protection

Advice : Use respirator with appropriate filter if vapours or aerosol are released.

Recommended Filter type:

Combination filter:B-P2

Combination filter:B-P3

Hand protection Advice : The glove material has to be impermeable and resistant to the product / the substance / the preparation.

Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). Protective gloves should be replaced at first signs of wear.

Material : butyl-rubber

Gloves : 8 h Glove thickness : 0.5 mm Material : Polyvinylchloride

Gloves : 8 h Glove thickness : 0.5 mm Material : polychloroprene

Gloves : 8 h Glove thickness : 0.5 mm

Eye protection

Advice : Tightly fitting safety goggles

Skin and body protection

Advice : alkali resistant protective clothing

Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.

Avoid subsoil penetration.

If the product contaminates rivers and lakes or drains inform respective authorities.

If material reaches soil inform authorities responsible for such cases.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form : liquid

Colour : yellowish green

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Odour : slight chlorine

Odour Threshold : Currently we do not have any Information from our supplier about this.

pH : > 11

Melting point/range : -17 °C

Boiling point/boiling range : 110 °C

Flash point : not applicable

Evaporation rate : Currently we do not have any Information from our supplier about this.

Flammability (solid, gas) : does not ignite

Upper explosion limit : not applicable

Lower explosion limit : not applicable

Vapour pressure : Currently we do not have any Information from our supplier about this.

Relative vapour density : > 1.0 (Air = 1.0)

Density : 1.2 - 1.3 g/cm³

Water solubility : completely soluble

Partition coefficient: n-octanol/water : Currently we do not have any Information from our supplier about this. Ignition temperature : not applicable

Thermal decomposition : Currently we do not have any Information from our supplier about this.

Viscosity, dynamic : 3.45 mPa.s

20 °C

(Aqueous, solution, 15 %)

Explosive properties : Not explosive

Oxidizing properties : Currently we do not have any Information from our supplier about this.

9.2 Other information

No further information available.

10. Stability and reactivity

10.1. Reactivity

Advice : This product is a very reactive substance that can react with many inorganic and organic compounds.

10.2. Chemical stability Advice : Decomposes on heating. Decomposes on exposure to light.

10.3. Possibility of hazardous reactions Hazardous reactions : May develop chlorine if mixed with acidic solutions.

10.4. Conditions to avoid Conditions to avoid : Heat.

10.5. Incompatible materials Materials to avoid : Acids, ammonium compounds, Acetic anhydride, Organic materials

Hydrogen peroxide, metal salts, Copper, Nickel, Iron.

10.6. Hazardous decomposition products

Hazardous decomposition products: Hydrogen chloride gas, Chlorine, chlorine oxides

11. Toxicological information

11.1. Information on toxicological effects

Product: Play Sol Playground Surface Cleaner

Cl active

CAS-No.

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Acute toxicity

Oral

Value type : LD50

Value : 2,900 - 3,400 mg/kg

Species : mouse

Remarks : Cause serious burns with severe pains, vomiting, pains in the stomach, possibly chock and damaged kidneys. The burn may occur even if only small amounts have been swallowed.

Inhalation

Value type : LC50

Value : > 10.5 mg/l

Species : rat

Dermal

Value type : LD50

Value : > 2,000 mg/kg

Species : rabbit

Irritation

Skin

Species : rabbit

Result : Severe skin irritation

Method : OECD Test Guideline 404

Species : human.

Result : corrosive effects

Eyes

Species : rabbit

Result : corrosive effects

Remarks : Risk of serious damage to eyes.

Sensitisation

Species : guinea pig

Result : not sensitizing

Further information

Other relevant toxicity information

: All numerical values for acute toxicity are calculated on the pure substances.

If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach.

Handle in accordance with good industrial hygiene and safety practice.

12. Ecological information

12.1. Toxicity

Product: sodium hypochlorite, solution 10-15 %

Cl active

CAS-No.

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Acute toxicity

Fish

Species : Pimephales promelas

Exposure Time : 96 h

Value type : LC50

Value : 0.22 - 0.62 mg/l

Toxicity to daphnia and other aquatic invertebrates.

Species : Daphnia magna

Exposure time : 96 h

Value type : EC50

Value : 2.1 mg/l

algae

Species : Desmodesmus subspicatus (green algae)

Exposure time : 24 h

Value type : EC50

Value : 28 mg/l

12.2. Persistence and degradability

Product: sodium hypochlorite, solution 10-15 %

CI active

CAS-No.

7681-52-9

Persistence and degradability

Persistence

Remarks : no data available

Biodegradability

Remarks : The methods for determining the biological degradability are not applicable to inorganic substances.

12.3. Bioaccumulative potential

Bioaccumulation Remarks : Bioaccumulation is not expected.

12.4. Mobility in soil

Mobility

Remarks : The product is mobile in water environment.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment

Remarks : No information available.

12.6. Other adverse effects

Additional ecological information Remarks : All numerical values for ecotoxicity effects are calculated on the pure substances. Do not flush into surface water or sanitary sewer system.

13. Disposal considerations

13.1. Waste treatment methods Product : Disposal together with normal waste is not allowed. Special disposal required according to local regulations. Do not let product enter drains. Contact waste disposal services.

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Contaminated packaging : Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning. Packagings that cannot be cleaned are to be disposed of in the same manner as the product.

European Waste Catalogue
Number

: No waste code according to the European Waste Catalogue can be assigned for this product, as the intended use dictates the assignment. The waste code is established in consultation with the regional waste disposer.

14. Transport information

14.1. UN number 1791

14.2. UN proper shipping name

ADR : HYPOCHLORITE SOLUTION
RID : HYPOCHLORITE SOLUTION
IMDG : HYPOCHLORITE SOLUTION

14.3. Transport hazard class(es)

ADR-Class

(Labels; Classification Code; Hazard
identification No; Tunnel restriction code)

:

8

8; C9; 80; (E)

RID-Class

(Labels; Classification Code; Hazard
identification No)

:

8

8; C9; 80

IMDG-Class

(Labels; EmS)

:

8

8; F-A, S-B

14.4. Packaging group

ADR : III

RID : III

IMDG : III

14.5. Environmental hazards

Labeling according to 5.2.1.8 ADR : Fish and tree

Labeling according to 5.2.1.8 RID : Fish and tree

Labeling according to 5.2.1.6.3 IMDG : Fish and tree

Classification as environmentally
hazardous according to 2.9.3 IMDG

:

yes

14.6. Special precautions for user

Note : not applicable

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

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IMDG : Not applicable.

15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.2. Chemical Safety Assessment

Currently we do not have any Information from our supplier about this.

16. Other information

Full text of R-phrases referred to under sections 2 and 3.

R31 Contact with acids liberates toxic gas.

R34 Causes burns.

R50 Very toxic to aquatic organisms.

Full text of H-Statements referred to under sections 2 and 3.

H314 Causes severe skin burns and eye damage.

H400 Very toxic to aquatic life.

Further information

Other information : Restricted to professional users. Attention - Avoid exposure - obtain special instructions before use.

The information provided in this Safety Data Sheet is correct to our knowledge at the date of its revision.

The information given only describes the products with regard to safety arrangements and is not to be considered as a warranty or quality

specification and does not constitute a legal relationship. The information contained in this Safety Data Sheet relates only to the specific material designated and may not be valid for such material used in combination with any other material

or in any process, unless specified in the text

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